

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A method for synchronized communication of information between a first station having a first modem and a second station having a second modem, comprising the steps of:

establishing a selected communications channel between the first modem and the second modem; and

wherein the step of establishing a communications channel between the first modem and the second modem is performed by scanning a plurality of channels including the selected communications channel, and selecting the selected communications channel using the results of a Link Quality Analysis (LQA) to compare the plurality of channels;

communicating the information over the selected communications channel using coherent modulation synchronized by an external frequency reference without using a modem training interval.

2. (Cancelled)

3. (Currently Amended) The method of Claim ~~2~~ 1, wherein the LQA is conducted according to the requirements of MIL-STD-188-141A.

4. (Original) The method of Claim 1, wherein the external frequency reference is derived from a Global Positioning System (GPS) direct sequence spread spectrum signal.

5. (Original) The method of Claim 1, wherein the external frequency reference is derived from a double sideband residual carrier signal.

6. (Original) The method of Claim 1, wherein the external frequency reference is derived from a 60 kilohertz carrier frequency signal.

7. (Original) The method of Claim 6, wherein the external frequency reference includes a binary-coded decimal time code.

8. (Original) The method of Claim 6, wherein the 60 kilohertz carrier frequency signal is broadcast by a National Institute of Standards and Technology radio station.

9. (Original) The method of Claim 1, wherein the external frequency reference is derived from an amplitude modulated broadcast signal.

10. (Currently Amended) A system for synchronized communication of information without using a training interval, comprising:

a first station having a first modem;

a second station having a second modem; and

a means for establishing a selected communications channel between the first modem and the second modem, wherein the information is communicated between the first and second modems using coherent modulation synchronized by an external frequency reference without using the modem training interval;

wherein the means for establishing a communications channel between the first modem and the second modem comprises: a means for scanning a plurality of channels including the selected communications channel, and a means for selecting the selected communications channel using the results of a Link Quality Analysis (LQA) to compare the plurality of channels.

11. (Cancelled)

12. (Currently Amended) The system of Claim ~~11~~ 10, wherein the LQA is conducted according to the requirements of MIL-STD-188.

13. (Currently Amended) The system of Claim ~~11~~ 10, wherein the external frequency reference is derived from a Global Positioning System (GPS) direct sequence spread spectrum signal.

14. (Currently Amended) The system of Claim ~~11~~ 10, wherein the external frequency reference is derived from a double sideband residual carrier signal.

15. (Currently Amended) The system of Claim ~~11~~ 10, wherein the external frequency reference is derived from a 60 Hertz carrier frequency signal.

16. (Original) The system of Claim 15, wherein the external frequency reference includes a binary-coded decimal time code.

17. (Original) The system of Claim 15, wherein the 60 kilohertz carrier frequency signal is broadcast by a National Institute of Standards and Technology radio station.

18. (Original) The system of Claim 10, wherein the external frequency reference is derived from an amplitude modulated broadcast signal.

19. (Original) A system for communicating information without using a modem training interval, comprising:

a first station having a first modem;

a second station having a second modem; and

at least one Automatic Link Establishment (ALE) Controller adapted to establish a selected communications channel between the first modem and the second modem, wherein the information is communicated between the first and second modems using coherent modulation synchronized by an external frequency reference without using the modem training interval.

20. (New) The system of Claim 19, wherein the external frequency reference is derived from a Global Positioning System (GPS) signal.

21. (New) The system of Claim 19, wherein the external frequency reference is derived from a sideband residual carrier signal.

22. (New) The system of Claim 19, wherein the external frequency reference is derived from a 60 Hertz carrier frequency signal.

23. (New) The system of Claim 19, wherein the external frequency reference is derived from a binary-coded decimal time code signal.

24. (New) The system of Claim 19, wherein the external frequency reference is broadcast by an institutionalized standards radio station.

25. (New) The system of Claim 19, wherein the external frequency reference is derived from an amplitude modulated broadcast signal.

26. (New) The system of Claim 19, wherein the ALE controller is operable to receive at least one backup frequency reference signal.

27. (New) The method of Claim 1, wherein the communications is via high frequency (HF) radio signals.

28. (New) The system of Claim 10, wherein the communications is via high frequency (HF) radio signals.